

# Joseph A Madri

## List of Publications by Year in descending order

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116  
papers

7,661  
citations

31949

53  
h-index

53190

85  
g-index

117  
all docs

117  
docs citations

117  
times ranked

8187  
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered vascular permeability and early onset of experimental autoimmune encephalomyelitis in PECAM-1-deficient mice. <i>Journal of Clinical Investigation</i> , 2002, 109, 383-392.	3.9	259
2	Paracrine and Autocrine Functions of Neuronal Vascular Endothelial Growth Factor (VEGF) in the Central Nervous System. <i>Journal of Biological Chemistry</i> , 2002, 277, 11410-11415.	1.6	239
3	Neuronal VEGF expression correlates with angiogenesis in postnatal developing rat brain. <i>Developmental Brain Research</i> , 2000, 119, 139-153.	2.1	225
4	PECAM-1: old friend, new partners. <i>Current Opinion in Cell Biology</i> , 2003, 15, 515-524.	2.6	216
5	Loss of MMP-2 disrupts skeletal and craniofacial development and results in decreased bone mineralization, joint erosion and defects in osteoblast and osteoclast growth. <i>Human Molecular Genetics</i> , 2007, 16, 1113-1123.	1.4	202
6	Dependence on pH of polarized sorting of secreted proteins. <i>Nature</i> , 1987, 329, 632-635.	13.7	199
7	A macroporous hydrogel for the coculture of neural progenitor and endothelial cells to form functional vascular networks in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2512-2517.	3.3	196
8	Endothelial growth factors and extracellular matrix regulate DNA synthesis through modulation of cell and nuclear expansion. <i>In Vitro Cellular &amp; Developmental Biology</i> , 1987, 23, 387-394.	1.0	195
9	Extracellular Matrix-Degrading Proteinases in the Nervous System. <i>Brain Pathology</i> , 1994, 4, 145-156.	2.1	194
10	Paracrine and Autocrine Functions of Brain-derived Neurotrophic Factor (BDNF) and Nerve Growth Factor (NGF) in Brain-derived Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 33538-33546.	1.6	183
11	Transforming growth factor beta1 modulates extracellular matrix organization and cell-cell junctional complex formation during in vitro angiogenesis. <i>Journal of Cellular Physiology</i> , 1990, 142, 117-128.	2.0	179
12	Modeling the neurovascular niche: VEGF- and BDNF-mediated cross-talk between neural stem cells and endothelial cells: An in vitro study. <i>Journal of Neuroscience Research</i> , 2006, 84, 1656-1668.	1.3	179
13	Collagen types I, III, and V in human embryonic and fetal skin. <i>American Journal of Anatomy</i> , 1986, 175, 507-521.	0.9	170
14	Egr-1 Mediates Extracellular Matrix-driven Transcription of Membrane Type 1 Matrix Metalloproteinase in Endothelium. <i>Journal of Biological Chemistry</i> , 1999, 274, 22679-22685.	1.6	168
15	Altered vascular permeability and early onset of experimental autoimmune encephalomyelitis in PECAM-1-deficient mice. <i>Journal of Clinical Investigation</i> , 2002, 109, 383-392.	3.9	168
16	Matrix Metalloproteinase 9 Facilitates West Nile Virus Entry into the Brain. <i>Journal of Virology</i> , 2008, 82, 8978-8985.	1.5	151
17	Selective Activation of Th1- and Th2-like Cells in vivo ? Response to Human Collagen IV. <i>Immunological Reviews</i> , 1991, 123, 65-84.	2.8	133
18	PECAM-1 shedding during apoptosis generates a membrane-anchored truncated molecule with unique signaling characteristics. <i>FASEB Journal</i> , 2001, 15, 362-372.	0.2	128

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19	Enhanced Susceptibility to Endotoxic Shock and Impaired STAT3 Signaling in CD31-Deficient Mice. <i>American Journal of Pathology</i> , 2005, 166, 185-196.	1.9	127
20	Major histocompatibility complex (MHC) control of CD4 T cell subset activation. II. A single peptide induces either humoral or cell-mediated responses in mice of distinct MHC genotype. <i>European Journal of Immunology</i> , 1992, 22, 559-565.	1.6	120
21	Platelet endothelial cell adhesion molecule, PECAM-1, modulates cell migration. <i>Journal of Cellular Physiology</i> , 1992, 153, 417-428.	2.0	113
22	Nonlinear partial differential equations and applications: Disrupted synaptic development in the hypoxic newborn brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15729-15734.	3.3	107
23	Platelet-Endothelial Cell Adhesion Molecule-1 (CD31), a Scaffolding Molecule for Selected Catenin Family Members Whose Binding Is Mediated by Different Tyrosine and Serine/Threonine Phosphorylation. <i>Journal of Biological Chemistry</i> , 2000, 275, 21435-21443.	1.6	104
24	PECAM-1 (CD31) Expression Modulates Bleeding Time in Vivo. <i>American Journal of Pathology</i> , 2000, 157, 75-81.	1.9	103
25	Targeted proteomics effectively quantifies differences between native lung and detergent-decellularized lung extracellular matrices. <i>Acta Biomaterialia</i> , 2016, 46, 91-100.	4.1	103
26	ENPP1-Fc prevents mortality and vascular calcifications in rodent model of generalized arterial calcification of infancy. <i>Nature Communications</i> , 2015, 6, 10006.	5.8	102
27	Cell Migration in the Immune System: the Evolving Inter-Related Roles of Adhesion Molecules and Proteinases. <i>Autoimmunity</i> , 2000, 7, 103-116.	0.6	101
28	Engineering angiogenesis following spinal cord injury: a coculture of neural progenitor and endothelial cells in a degradable polymer implant leads to an increase in vessel density and formation of the blood-spinal cord barrier. <i>European Journal of Neuroscience</i> , 2009, 29, 132-145.	1.2	98
29	Platelet Endothelial Cell Adhesion Molecule-1 Is Phosphorylatable by c-Src, Binds Src-Src homology 2 Domain, and Exhibits Immunoreceptor Tyrosine-based Activation Motif-like Properties. <i>Journal of Biological Chemistry</i> , 1997, 272, 14442-14446.	1.6	93
30	MMP-2 null mice exhibit an early onset and severe experimental autoimmune encephalomyelitis due to an increase in MMP-9 expression and activity. <i>FASEB Journal</i> , 2004, 18, 1682-1691.	0.2	91
31	Transcription Factor Sp1 Phosphorylation Induced by Shear Stress Inhibits Membrane Type 1-Matrix Metalloproteinase Expression in Endothelium. <i>Journal of Biological Chemistry</i> , 2002, 277, 34808-34814.	1.6	89
32	Elevated glucose inhibits VEGF-mediated endocardial cushion formation. <i>Journal of Cell Biology</i> , 2003, 160, 605-615.	2.3	88
33	Distinct roles for matrix metalloproteinase-2 and $\alpha 4$ integrin in autoimmune T cell extravasation and residency in brain parenchyma during experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2000, 109, 121-131.	1.1	86
34	An acellular human amnionic membrane model for in vitro culture of type ii pneumocytes: The role of the basement membrane in cell morphology and function. <i>Journal of Cellular Physiology</i> , 1984, 121, 215-225.	2.0	83
35	Astrocyte-derived VEGF mediates survival and tube stabilization of hypoxic brain microvascular endothelial cells in vitro. <i>Developmental Brain Research</i> , 2001, 130, 123-132.	2.1	83
36	Lack of Platelet Endothelial Cell Adhesion Molecule-1 Attenuates Foreign Body Inflammation because of Decreased Angiogenesis. <i>American Journal of Pathology</i> , 2003, 162, 953-962.	1.9	81

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37	PECAM-1 Affects GSK-3 $\beta$ -Mediated $\beta$ -Catenin Phosphorylation and Degradation. American Journal of Pathology, 2006, 169, 314-324.	1.9	77
38	Characterization of RAGE, HMGB1, and S100 $\beta$ in Inflammation-Induced Preterm Birth and Fetal Tissue Injury. American Journal of Pathology, 2009, 175, 958-975.	1.9	77
39	$\beta$ T Cells Facilitate Adaptive Immunity against West Nile Virus Infection in Mice. Journal of Immunology, 2006, 177, 1825-1832.	0.4	76
40	Hyperglycemia-Induced Vasculopathy in the Murine Conceptus Is Mediated via Reductions of VEGF-A Expression and VEGF Receptor Activation. American Journal of Pathology, 2001, 158, 1199-1206.	1.9	75
41	Platelet endothelial cell adhesion molecule-1 modulates endothelial cell motility through the small G protein Rho. FASEB Journal, 2003, 17, 1458-1469.	0.2	74
42	Mechanisms of cytoskeletal regulation: Modulation of aortic endothelial cell protein band 4.1 by the extracellular matrix. Journal of Cellular Physiology, 1986, 127, 423-431.	2.0	70
43	Vascular endothelial growth factor mediates reactive angiogenesis in the postnatal developing brain. Developmental Brain Research, 1997, 100, 52-61.	2.1	70
44	MAPKs (ERK1/2, p38) and AKT Can Be Phosphorylated by Shear Stress Independently of Platelet Endothelial Cell Adhesion Molecule-1 (CD31) in Vascular Endothelial Cells. Journal of Biological Chemistry, 2005, 280, 11185-11191.	1.6	68
45	Cyclic Strain Stimulates Early Growth Response Gene Product 1-Mediated Expression of Membrane Type 1 Matrix Metalloproteinase in Endothelium. Laboratory Investigation, 2002, 82, 949-956.	1.7	67
46	Matrix composition, organization and soluble factors: Modulators of microvascular cell differentiation in vitro. Kidney International, 1992, 41, 560-565.	2.6	61
47	Hyperglycemia-Induced Vasculopathy in the Murine Vitelline Vasculature. American Journal of Pathology, 1999, 154, 1367-1379.	1.9	60
48	A Monoclonal Antibody Specific for the Amino Terminal Cleavage Site of Procollagen Type I. FEBS Journal, 1983, 134, 183-189.	0.2	59
49	Modulation of vascular cell behavior by transforming growth factors ?. Molecular Reproduction and Development, 1992, 32, 121-126.	1.0	59
50	CD44 Regulation of Endothelial Cell Proliferation and Apoptosis via Modulation of CD31 and VE-cadherin Expression. Journal of Biological Chemistry, 2014, 289, 5357-5370.	1.6	58
51	Role of C5 in the development of airway inflammation, airway hyperresponsiveness, and ongoing airway response. Journal of Clinical Investigation, 2005, 115, 1590-1600.	3.9	58
52	NEU1 Sialidase Regulates the Sialylation State of CD31 and Disrupts CD31-driven Capillary-like Tube Formation in Human Lung Microvascular Endothelia. Journal of Biological Chemistry, 2014, 289, 9121-9135.	1.6	57
53	Nitric oxide modulates murine yolk sac vasculogenesis and rescues glucose induced vasculopathy. Development (Cambridge), 2004, 131, 2485-2496.	1.2	56
54	Regulation of human colonic cell line proliferation and phenotype by sodium butyrate. Digestive Diseases and Sciences, 1996, 41, 1986-1993.	1.1	54

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55	Vascular Endothelial Growth Factor Expression, $\beta$ -Catenin Tyrosine Phosphorylation, and Endothelial Proliferative Behavior: A Pathway for Transformation?. <i>Laboratory Investigation</i> , 2003, 83, 1105-1115.	1.7	53
56	Platelet-endothelial cell adhesion molecule-1 modulates endothelial migration through its immunoreceptor tyrosine-based inhibitory motif. <i>Biochemical and Biophysical Research Communications</i> , 2003, 301, 243-249.	1.0	51
57	Transcriptional Up-regulation of Endothelial Cell Matrix Metalloproteinase-2 in Response to Extracellular Cues Involves GATA-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 47785-47791.	1.6	50
58	CD44 Deficiency Contributes to Enhanced Experimental Autoimmune Encephalomyelitis. <i>American Journal of Pathology</i> , 2013, 182, 1322-1336.	1.9	47
59	CD44 Promotes Inflammation and Extracellular Matrix Production During Arteriovenous Fistula Maturation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1147-1156.	1.1	47
60	Germinal matrix microvascular maturation correlates inversely with the risk period for neonatal intraventricular hemorrhage. <i>Developmental Brain Research</i> , 1995, 84, 142-149.	2.1	44
61	CD44 regulates vascular endothelial barrier integrity via a PECAM-1 dependent mechanism. <i>Angiogenesis</i> , 2013, 16, 689-705.	3.7	43
62	PECAM-1 promotes $\beta$ -catenin accumulation and stimulates endothelial cell proliferation. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 212-218.	1.0	42
63	Vascular Cell Responses to TGF- $\beta$ 3 Mimic Those of TGF- $\beta$ 1 in vitro. <i>Growth Factors</i> , 1991, 5, 149-158.	0.5	40
64	VEGF-A and Semaphorin3A: Modulators of vascular sympathetic innervation. <i>Developmental Biology</i> , 2009, 334, 119-132.	0.9	38
65	Temporal Regulation of venous Extracellular Matrix Components during Arteriovenous Fistula Maturation. <i>Journal of Vascular Access</i> , 2015, 16, 93-106.	0.5	38
66	PECAM-1 Is a Modulator of STAT Family Member Phosphorylation and Localization: Lessons from a Transgenic Mouse. <i>Developmental Biology</i> , 2001, 232, 219-232.	0.9	37
67	Effect of tyrosine kinase inhibition on basal and epidermal growth factor-stimulated human Caco-2 enterocyte sheet migration and proliferation. <i>Journal of Cellular Physiology</i> , 1994, 160, 491-501.	2.0	36
68	Neutrophils Lacking Platelet-Endothelial Cell Adhesion Molecule-1 Exhibit Loss of Directionality and Motility in CXCR2-Mediated Chemotaxis. <i>Journal of Immunology</i> , 2005, 175, 3484-3491.	0.4	35
69	Glycocalyx-Like Hydrogel Coatings for Small Diameter Vascular Grafts. <i>Advanced Functional Materials</i> , 2020, 30, 1908963.	7.8	33
70	Proteomic-Based Detection of a Protein Cluster Dysregulated during Cardiovascular Development Identifies Biomarkers of Congenital Heart Defects. <i>PLoS ONE</i> , 2009, 4, e4221.	1.1	32
71	MAPKAPK2-mediated LSP1 phosphorylation and FMLP-induced neutrophil polarization. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 170-175.	1.0	31
72	PECAM-1 modulates thrombin-induced tissue factor expression on endothelial cells. <i>Journal of Cellular Physiology</i> , 2007, 210, 527-537.	2.0	31

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73	An in vitro three-dimensional coculture model of cerebral microvascular angiogenesis and differentiation. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1997, 33, 684-691.	0.7	30
74	Increased Oxidative Stress and Hypoxia Inducible Factor-1 Expression during Arteriovenous Fistula Maturation. <i>Annals of Vascular Surgery</i> , 2017, 41, 225-234.	0.4	30
75	PECAM-1: a multifaceted regulator of megakaryocytopoiesis. <i>Blood</i> , 2007, 110, 851-859.	0.6	29
76	Histamine inhibits conducted vasodilation through endothelium-derived NO production in arterioles of mouse skeletal muscle. <i>FASEB Journal</i> , 2004, 18, 280-286.	0.2	28
77	Identification of the regions of PECAM-1 involved in $\beta$ - and $\gamma$ -catenin associations. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 1225-1233.	1.0	27
78	Minocycline mitigates the effect of neonatal hypoxic insult on human brain organoids. <i>Cell Death and Disease</i> , 2019, 10, 325.	2.7	27
79	Modeling the neurovascular niche: Murine strain differences mimic the range of responses to chronic hypoxia in the premature newborn. <i>Journal of Neuroscience Research</i> , 2008, 86, 1227-1242.	1.3	25
80	GSK-3 $\beta$ : a signaling pathway node modulating neural stem cell and endothelial cell interactions. <i>Angiogenesis</i> , 2011, 14, 173-185.	3.7	25
81	Interactions of Vascular Cells with Transforming Growth Factors- $\beta$ . <i>Annals of the New York Academy of Sciences</i> , 1990, 593, 243-258.	1.8	24
82	Co-culture of primary neural progenitor and endothelial cells in a macroporous gel promotes stable vascular networks in vivo. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 1469-1485.	1.9	24
83	Photoinhibition of smooth muscle cell migration: Potential therapy for restenosis. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 4-11.	1.1	22
84	CD44 Influences Fibroblast Behaviors Via Modulation of Cell-Cell and Cell-Matrix Interactions, Affecting Survivin and Hippo Pathways. <i>Journal of Cellular Physiology</i> , 2016, 231, 731-743.	2.0	22
85	Gram-Negative Endocarditis Following Cystoscopy. <i>Journal of Urology</i> , 1978, 119, 134-137.	0.2	21
86	Disturbed shear stress reduces Klf2 expression in arterial-venous fistulae in vivo. <i>Physiological Reports</i> , 2015, 3, e12348.	0.7	21
87	Bone Marrow Monocyte PECAM-1 Deficiency Elicits Increased Osteoclastogenesis Resulting in Trabecular Bone Loss. <i>Journal of Immunology</i> , 2009, 182, 2672-2679.	0.4	18
88	Strain Differences in Behavioral and Cellular Responses to Perinatal Hypoxia and Relationships to Neural Stem Cell Survival and Self-Renewal. <i>American Journal of Pathology</i> , 2009, 175, 2133-2145.	1.9	18
89	Demonstration of cutaneous doxorubicin extravasation by rhodamine-filtered fluorescence microscopy. <i>Journal of Surgical Oncology</i> , 1986, 31, 21-25.	0.8	17
90	Maternal Diabetes: Effects on Embryonic Vascular Development—A Vascular Endothelial Growth Factor-A-mediated Process. <i>Pediatric and Developmental Pathology</i> , 2003, 6, 334-341.	0.5	17

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91	The roles of nitric oxide in murine cardiovascular development. <i>Developmental Biology</i> , 2006, 292, 25-33.	0.9	17
92	Adhesion Molecule-Mediated Hippo Pathway Modulates Hemangioendothelioma Cell Behavior. <i>Molecular and Cellular Biology</i> , 2014, 34, 4485-4499.	1.1	17
93	MMP-2: A modulator of neuronal precursor activity and cognitive and motor behaviors. <i>Behavioural Brain Research</i> , 2017, 333, 74-82.	1.2	15
94	New paradigms of signaling in the vasculature: ephrins and metalloproteases. <i>Current Opinion in Biotechnology</i> , 1999, 10, 536-540.	3.3	14
95	Differential Effects of Shear Stress and Cyclic Strain on Sp1 Phosphorylation by Protein Kinase C $\eta$ Modulates Membrane Type 1 $\alpha$ Matrix Metalloproteinase in Endothelial Cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2008, 15, 33-42.	1.7	13
96	Laminar shear, but not orbital shear, has a synergistic effect with thrombin stimulation on tissue factor expression in human umbilical vein endothelial cells. <i>Journal of Vascular Surgery</i> , 2011, 54, 480-488.	0.6	11
97	The immune response to human type III and type V (AB2) collagen: antigenic determinants and genetic control in mice. <i>European Journal of Immunology</i> , 1981, 11, 90-94.	1.6	10
98	Pulsatile to-fro flow induces greater and sustained expression of tissue factor RNA in HUVEC than unidirectional laminar flow. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1345-H1351.	1.5	10
99	Stratified control of IGF-I expression by hypoxia and stress hormones in osteoblasts. <i>Gene</i> , 2014, 539, 141-151.	1.0	9
100	Modulation of Sox10, HIF-1 $\beta$ , Survivin, and YAP by Minocycline in the Treatment of Neurodevelopmental Handicaps following Hypoxic Insult. <i>American Journal of Pathology</i> , 2015, 185, 2364-2378.	1.9	9
101	Varying Effects of Hemodynamic Forces on Tissue Factor RNA Expression in Human Endothelial Cells. <i>Journal of Surgical Research</i> , 2011, 170, 150-156.	0.8	7
102	A hydrogel-endothelial cell implant mimics infantile hemangioma: modulation by survivin and the Hippo pathway. <i>Laboratory Investigation</i> , 2015, 95, 765-780.	1.7	7
103	The role of endothelial HIF-1 $\beta$ in the response to sublethal hypoxia in C57BL/6 mouse pups. <i>Laboratory Investigation</i> , 2017, 97, 356-369.	1.7	7
104	Modeling the Neurovascular Niche: Unbiased Transcriptome Analysis of the Murine Subventricular Zone in Response to Hypoxic Insult. <i>PLoS ONE</i> , 2013, 8, e76265.	1.1	7
105	Short Term Interactions with Long Term Consequences: Modulation of Chimeric Vessels by Neural Progenitors. <i>PLoS ONE</i> , 2012, 7, e53208.	1.1	6
106	Somatic PRKAR1A mutation in sporadic atrial myxoma with cerebral parenchymal metastases: a case report. <i>Journal of Medical Case Reports</i> , 2019, 13, 389.	0.4	6
107	The evolving roles of cell surface proteases in health and disease: Implications for developmental, adaptive, inflammatory, and neoplastic processes. <i>Current Topics in Developmental Biology</i> , 2003, 54, 391-410.	1.0	4
108	As human lung microvascular endothelia achieve confluence, src family kinases are activated, and tyrosine-phosphorylated p120 catenin physically couples NEU1 sialidase to CD31. <i>Cellular Signalling</i> , 2017, 35, 1-15.	1.7	4

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109	A Static Self-Directed Method for Generating Brain Organoids from Human Embryonic Stem Cells. Journal of Visualized Experiments, 2020, , .	0.2	2
110	ÂNOD Mice Having a Lyn Tyrosine Kinase Mutation Exhibit Abnormal Neutrophil Chemotaxis. Journal of Cellular Physiology, 2017, 232, 1689-1695.	2.0	1
111	Cryopreserved Dermis is an Ideal Substrate for the Engraftment and Maturation of Human Epidermal Keratinocyte Cultures. Materials Research Society Symposia Proceedings, 1987, 110, 363.	0.1	0
112	Need MT1-MMP? Just say NO!. Blood, 2007, 110, 2790-2791.	0.6	0
113	Angiogenesis, the Neurovascular Niche and Neuronal Reintegration After Injury. , 2010, , 145-167.		0
114	Cyclic Strain Delays the Expression of Tissue Factor Induced by Thrombin in Human Umbilical Vein Endothelial Cells. International Journal of Angiology, 2011, 20, 157-166.	0.2	0
115	Cellâ€œextracellular matrix interactions in oral tumorigenesis: Roles of podoplanin and CD44 and modulation of Hippo pathway. Journal of Oral Biosciences, 2015, 57, 45-53.	0.8	0
116	PECAMâ€œ1: a multiâ€œfaceted regulator of megakaryocytopoiesis. FASEB Journal, 2006, 20, A633.	0.2	0